

Applicant: Akio Fukushima, et al.

Title: Electronic Watermark Embedding Apparatus and Method...

Atty Docket No. 16869S-033500

Sheet 1 of 6

FIG. 1

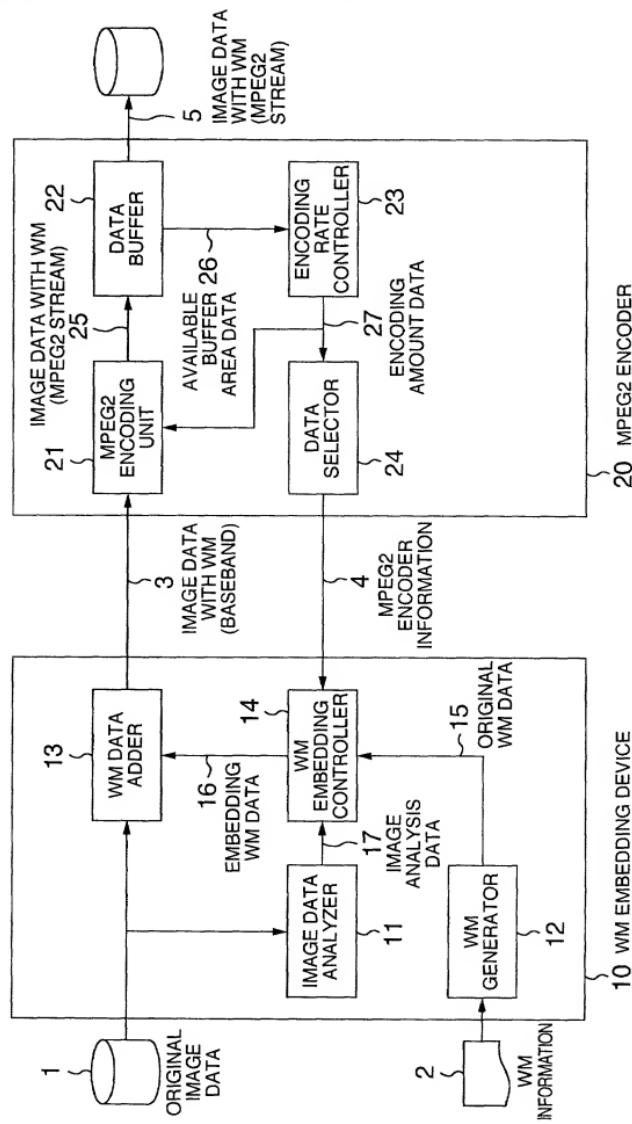


FIG. 2

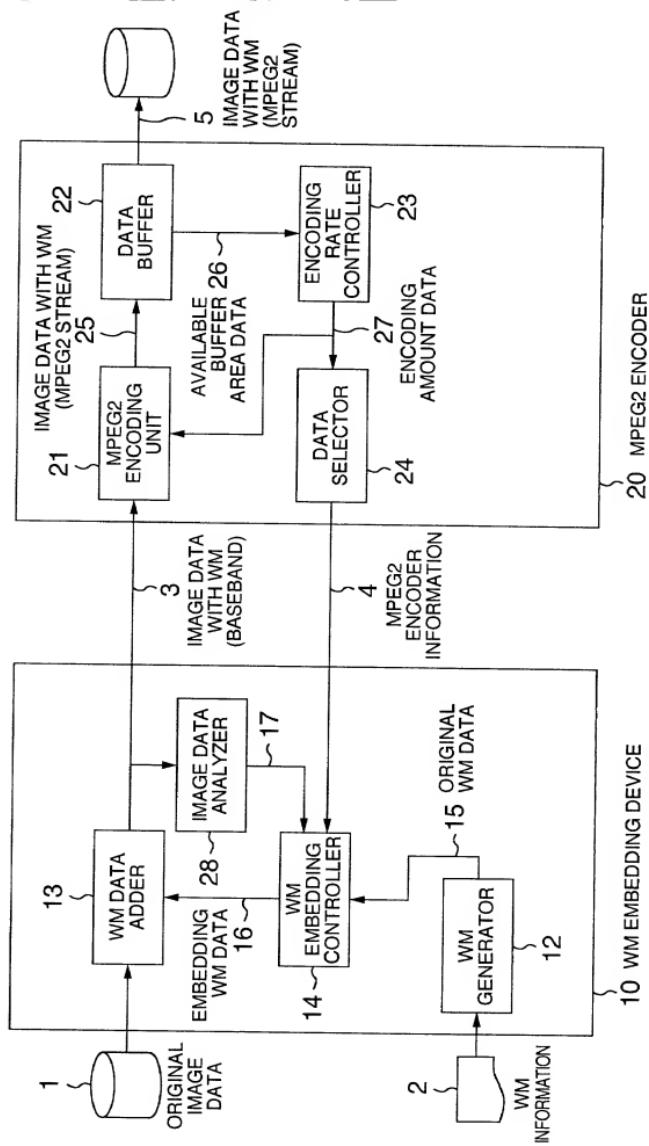


FIG. 3

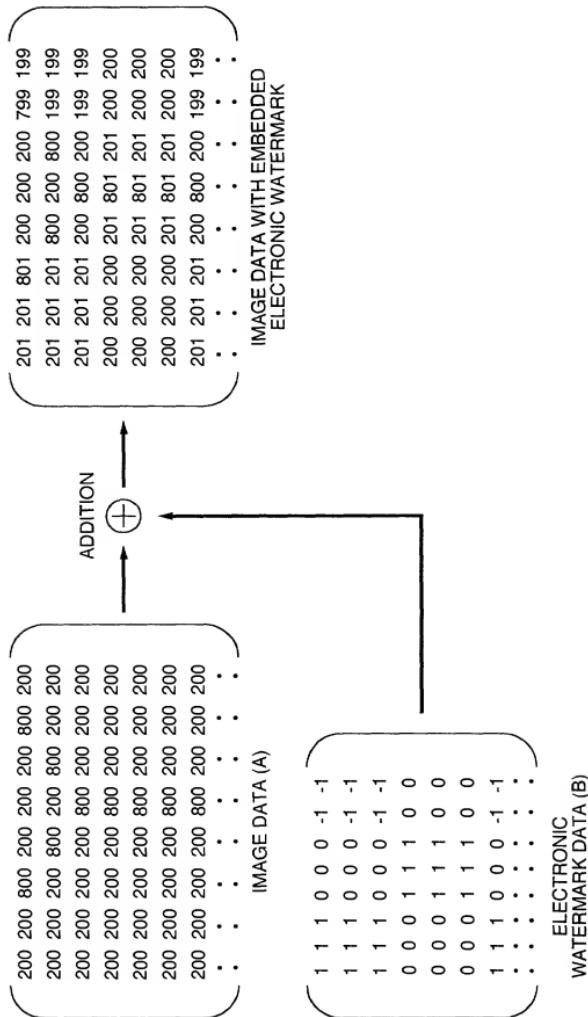


FIG. 4

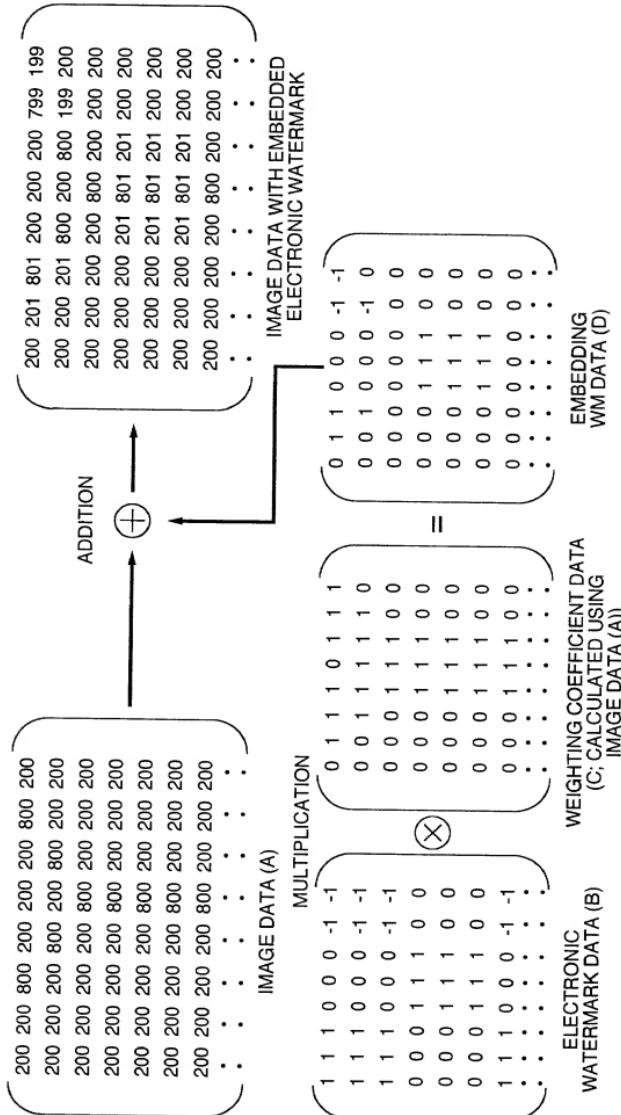


FIG.5

MULTIPLICATION

DEFUALT VALUES FOR INTRA-QUANTIZER-MATRIX

WEIGHTING COEFFICIENT DATA FOR INTRA-QUANTIZER-MATRIX

TRANSFORMED INTRA-QUANTIZER-MATRIX

$$\left(\begin{array}{cccccc} 8 & 16 & 19 & 22 & 26 & 27 & 29 & 34 \\ 16 & 16 & 22 & 24 & 27 & 29 & 34 & 37 \\ 19 & 22 & 26 & 27 & 29 & 34 & 34 & 38 \\ 22 & 22 & 26 & 27 & 29 & 34 & 37 & 40 \\ 22 & 26 & 27 & 29 & 32 & 35 & 40 & 48 \\ 26 & 27 & 29 & 32 & 35 & 40 & 48 & 58 \\ 26 & 27 & 29 & 34 & 38 & 46 & 56 & 69 \\ 27 & 29 & 35 & 38 & 46 & 56 & 69 & 83 \end{array} \right) \times \left(\begin{array}{cccccc} 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \\ 1 & 1 & 1 & 1 & 1 & 2 & 2 \end{array} \right) = \left(\begin{array}{cccccc} 8 & 16 & 19 & 22 & 26 & 27 & 58 & 68 \\ 16 & 16 & 22 & 24 & 27 & 29 & 68 & 74 \\ 19 & 22 & 26 & 27 & 29 & 34 & 68 & 76 \\ 22 & 22 & 26 & 27 & 29 & 34 & 74 & 80 \\ 22 & 26 & 27 & 29 & 32 & 70 & 80 & 96 \\ 26 & 27 & 29 & 32 & 70 & 80 & 96 & 116 \\ 52 & 54 & 58 & 68 & 76 & 92 & 112 & 138 \\ 54 & 58 & 70 & 76 & 92 & 112 & 138 & 166 \end{array} \right)$$

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Sheet 6 of 6

FIG. 6

